

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-14 (cancelled).

15. (currently amended) A mobile electronic device, comprising:

a microprocessor;

a plurality of software applications operable on the microprocessor;

a heap memory for storing objects used by the software applications;

a garbage collector module operable on the microprocessor for cleaning unreferenced objects in the heap memory; and

a memory cleaner module operable on the microprocessor for maintaining a list of registered applications selected from the software applications, and for notifying at least some of the registered applications upon the occurrence of a trigger event;

the registered applications being responsive to the memory cleaner module for unreferencing at least some of the objects in the heap memory used thereby upon receiving the notification from the memory cleaner module;

and the registered applications are each configured for advising the memory cleaner module if any objects have been unreferenced thereby based on the notification, and the memory cleaner module is configured for causing the garbage collector module to clean unreferenced objects in the heap memory upon being advised by one or more of the registered applications that objects have been unreferenced thereby based on the notification.

16. (original) The mobile electronic device of claim 15 wherein there are a plurality of different types of trigger events upon the occurrence of any one of which the memory cleaner module notifies the registered applications, the notification including

an identification of the type of trigger event.

17. (original) The mobile electronic device of claim 16 wherein at least one of the trigger events is selected from the group consisting of: a holstering event that occurs when the device is placed in a corresponding holster; an idle timeout event that occurs when the device is left idle by a user thereof for a predetermined time period; a synchronization start event that occurs when the device begins a synchronization operation with a computer; a synchronization end event that occurs when the device ends the synchronization operation with the computer; a memory cleaner event that occurs when a memory cleaning operation is initiated on the device; a time change event that occurs when a time setting of the device is changed; a device lock event that occurs when the device is locked; and a power down event that occurs as the device is about to power down.

18. (original) The mobile electronic device of claim 16 wherein at least some of the registered applications are configured for, upon receiving notification from the memory cleaner module, selectively unreferencing objects referenced thereby based on the type of trigger event.

19. (cancelled)

20. (original) The mobile electronic device of claim 15 wherein the device includes a display screen, the memory cleaner module being configured for generating on the display screen a user interface identifying the registered applications.

21. (original) The mobile electronic device of claim 15 wherein at least one of the software applications is configured to automatically register with the memory cleaner module as a registered application when creating a predetermined category of data.